## Data Sheet

We make sure



## PRIMERGY TX150 S6

Issue: February 2009

Mono socket Quad-Core Intel® Xeon® UP based Tower Server - World class in quality and redundancy

PRIMERGY TX Tower Servers deliver highest reliability rates with proven data center technology comparable with high end UNIX servers. The innovative, broadest portfolio of virtualization, server and solution offerings stand for TCO reductions of 60% or more. Optimized air flow cooling technology assures a long life and highest possible performance/watt at work as well as by far best in class efficiency proven by numerous benchmark records. And as your business grows, plenty of headroom for expansion protects your investments in PRIMERGY as well as our universal tower-to-rack conversion kit does in case of consolidation changes. PRIMERGY ServerView Suite with remote management functions provides comprehensive management from anywhere at any time. The flexible custom supply model and our build-to-order process mean, that only fully built and pre-tested solutions are shipped to customers. Last but not least Fujitsu Siemens Computers proven commitment to green IT offers clear competitive advantages to our customers.

## PRIMERGY TX150 S6

The PRIMERGY TX150 S6 tower server delivers new levels of energy efficient performance with Intel® Xeon® Quad-Core processor 3300 series. This is achieved with up to 1333 MHz FSB clock rate and with Intel's new state-of-the-art multi-core optimized microarchitecture. A server with this processor proves to be a particularly powerful system that can respond quickly to your requirements. Enhance your efficiency when it comes to simultaneous execution of multiple applications and downloading mass data. The processor with the Intel® 3210 chipset also supports virtualization and EM64 technology. This sixth-generation tower server combines high performance with low noise. The 3.5-inch SAS or SATA or 2.5-inch SAS hot-plug hard disks can be replaced easily while the server is in operation. High data security is offered thanks to built-in RAID 1 functionality and an optional ibutton RAID 5 implementation for SATA or a modular RAID for SAS configurations. The standard iRMC S2 (integrated Remote Management Controller) offers enhanced system management and graphics based on IPMI 2.0 technology, and the redundant power supply module further increases operational reliability. Dual-Core Xeon® processors and an even more power saving Celeron® processor round off the offering alternatively.





Main features	Benefits
ECC, built-in RAID 1 functionality and optional ibutton RAID 5 for	High security against physical loss of data
SATA or modular RAID for SAS configurations	
Hot-plug HDD infrastructure (standard), Hot-plug redundant PSU	Tailor made availability, offers the security level which is
(optional) ServerView Local, Service Panel (LSP) optional for	recommended by your individual application demands
customer's Service on its own	
Intel Quad-Core processor, provides four execution cores in	Allowing the platform to do more in less time, IT departments
one physical processor with less power consumption. Energy	can consolidate applications and more effectively employ the
efficient Intel Celeron processor even more power saving	server with less power consumption
Up to 4x SATA or 4 (6)x SAS/SATA 3.5-inch, up to 8x 2.5-inch	Expandability options for further growth
SAS hard disks, 6 PCI/PCIe slots, (5 with SAS), 1x Gbit LAN	
plus extra Service LAN for iRMC S2	
Universal tower-to-rack conversion kit	Investment protection through optional tower to rack conversion
	kit







Technical details								
PRIMERGY TX150 S6 Housing type Hard disk architecture	Floorstand 3.5" SAS/ SATA	Floorstand 3.5" SAS/ SATA	Floorstand 2.5" SAS	Floorstand 2.5" SAS	Rack 3.5" SAS/ SATA	Rack 3.5" SAS/ SATA	Rack 2.5" SAS	Rack 2.5" SAS
Power supply	Standard	Hotplug	Standard	Hotplug	Standard	Hotplug	Standard	Hotplug
Mainboard Mainboard type Chipset Processor quantity and type	D 2559 Intel <sup>®</sup> 3210 1 x Intel <sup>®</sup> Ce	leron® process	sor / Intel® Pen	ntium <sup>®</sup> Dual-Co	re processor /	Intel® XEON®	processor 300	00 sequence
Processor options	Intel® Core™ Intel® Pentiu Intel® Pentiu Intel® Xeon® Intel® Xeon® Intel® Xeon® Intel® Xeon® Intel® Xeon® Intel® Xeon®	<sup>4</sup> 2 Duo E7200 m® E2140 (2C m® E2200 (2C E3110 (2C, 3. E3120 (2C, 3. L3110 (2C, 3. X3220 (4C, 2 X3360 (4C, 2	(2C, 2.53 GHz; 1.60 GHz, SG; 2.20 GHz, SG; 00 GHz, SLC; 16 GHz, SLC; 16 GHz, SLC; 40 GHz, SLC; 83 GHz, SLC; 83 GHz, SLC; 83 GHz, SLC;	512 KB, 800 Mz, SLC: 3 MB, LC: 1 MB, 800 LC: 1 MB, 800 6 MB, 1333 M 6 MB, 1333 M 224 MB, 1066 2246 MB, 1333 224 MB, 1333 2246 MB, 1333 2246 MB, 1333	1066 MHz, 65 MHz, 65 W) MHz, 65 W) IHz, 65 W) IHz, 65 W) Hz, ) MHz, 95 W)	W)		
Memory slots Memory slot type Memory capacity (min max.) Memory Protection Memory notes	PC2-6400 (t 1 GB - 8 GB Advanced E Mix and mat	CC ch possible; w	M DDR2 800 E	ECC) lel operation be onfiguration po		nce (2 module	s with equal ca	apacity
Memory options	2 GB (1 module(s) with 2 GB), DDR2, 800 MHz 1 GB (1 module(s) with 1 GB), DDR2, 800 MHz							
Upgrade notes	For a memo	ry and process	sor upgrade a	BIOS update n	nay be require	ed.		
Interfaces USB ports Graphics (15-pin) Serial 1 (9-pin) Serial 2 (9-pin) Parallel (25-pin) Mouse / Keyboard (PS/2) LAN / Ethernet (RJ-45) Service LAN (RJ45)	1 x VGA 1 x serial RS 1 x serial RS 1 x Centroni 2 1 x Gbit/s Et 1 x dedicate	S-232-C, usab S-232-C (option cs 25-pin EPP hernet d service LAN	nal) /ECP compati port for iRMC	system or sha	pit/s)			
Onboard or integrated Controller Integrated RAID Controller	Integrated R	AID 0/1 or RA	ID 5/6 controll	er for SAS bas	e units (occur	ies one PCIe :	slot)	
SATA Controller	See under C Intel® ICH9R	components R. I, 2 ports used	AID controller for accessible				·	
LAN Controller		10/100/1000 N		, PXE-Boot via				
Remote Management Controller	2.0 compatil	ole	ement Control	ler (iRMC S2,	32 MB attache	ed memory inc	I. graphics con	ntroller), IPMI
TPM	Infineon / 1.2	2 (option)						
Slots PCI-Express x8 PCI-Express x4 (mech. x8) PCI slots	2 x short 1 x short 3 x PCI 32/3	3 MHz, 2x lon	g, 5V					
Slot Notes	in SAS confi	guration 1x P0	CI-Express occ	cupied by modi	ular RAID cont	troller		
<b>Drive bays</b> Accessible drive bays	3 x 5.25/1.6-							
Notes accessible drives	1 x 3.5/1-inc all possible		oed in relevant	system config	urator			
Drive bays (Base unit specific)	4 v 2 E inch	4 v 2 E in ab	0 v 0 E inch	0 v 0 E inch	4 v 2 E inch	4 v 2 E in al	0 v 0 E in al	0 4 2 5 1

Hard disk bays 4 x 3.5-inch 4 x 3.5-inch 8 x 2.5-inch 8 x 2.5-inch 4 x 3.5-inch 4 x 3.5-inch 8 x 2.5-inch 8 x 2.5-inch hot-plug SAS/SATA non hot-plug hot-plug SATA SAS hot-plug SAS hot-plug SAS/SATA hot-plug SAS/SATA hot-plug SAS hot-plug SAS Optional hard disk bays 2 x 3.5-inch 2 x 3.5-inch 2 x 3.5-inch 2 x 3.5-inch

hot-plug hot-plug hot-plug hot-plug HDD box HDD box HDD box HDD box

Operating panel

On/off switch NMI button Operating buttons Reset button

Operating panel Status LEDs System status (amber / yellow) Identification (blue) Hard disks access (green) Power (amber / green) At system rear side: System status (amber / yellow) Identification (blue) LAN connection (green) LAN speed (green / yellow) Optional: Service display ServerView Local Service Panel (LSP) BIOS ROM based setup utility **BIOS** features Recovery BIOS BIOS settings save and restore Local BIOS update from USB device Online update tools for main Windows and Linux versions Local and remote update via ServerView Update Manager SMBIOS V2.4 Remote PXE boot support Remote iSCSI boot support Supported server operating systems Supported operating systems Microsoft® Windows Server® 2008 Microsoft® Windows Server® 2003 Novell SUSE Linux Enterprise Server Red Hat Enterprise Linux VMware Infrastructure Note: Support of other Linux derivatives on demand Operating system release link http://www.fujitsu-siemens.com/software ftp://ftp.fujitsu-siemens.com/outgoing/osrel.xls **Server Management** Standard ServerView Deployment Manager (fully functional 30-day trial version) ServerView Integration solutions for Microsoft SMS, MOM, SCOM, SCCM and Altiris Deployment Solution Online update packages for BIOS, firmware drivers and ServerView Agents ServerView Suite: SV Installation Manager, SV Operation Manager, SV RAID Manager, SV Update Manager, SV Agents ServerView Remote Management Option iRMC S2 Advanced Pack Regarding Operating System dependencies and product details for ServerView Suite Software Products see Server Management Notes dedicated Product Data sheets. **Dimensions / Weight** Dimension notes Width 305 mm with tilt protection Weight up to 28 kg Weight notes Weight may vary depending on actual configuration. Rack integration kit Rack integration kit as option Dimensions / Weight (Base unit specific) Floor-stand (W x D x H) 205 x 605 x 205 x 605 x 205 x 605 x 205 x 605 x 444 mm 444 mm 444 mm 444 mm Rack (W x D x H) 482 x 642 x 482 x 642 x 482 x 642 x 482 x 642 x 221 mm 221 mm 221 mm 221 mm Mounting Depth Rack 607 mm 607 mm 607 mm 607 mm Height Unit Rack 5 U 5 U 5 U 5 U **Environmental** Noise emission Measured according to ISO 7779 and declared according to ISO 9296 26 dB(A) (idle) / 35 dB(A) (operating) Sound pressure (LpAm) Sound power (LWAd; 1B = 10dB) 4.4 B (idle) / 5.3 B (operating) Noise notes / description only with standard fans and standard PSU Operating ambient temperature 10 - 35°C Operating relative humidity 10 - 85 % (non condensing) **Electrical values** Power supply configuration Base unit specific: 1x standard power supply or 2x hot-plug power supply (1 + 1 redundancy) Rated voltage range 100 - 240 V Rated frequency range 50 - 60 Hz Rated current max. 6 A / 3 A (100 V / 240 V) Rated current in basic configuration 1.9 A / 0.8 A (100 V / 240 V) Active Power max. 232 W Apparent power max. 263 VA 835.2 kJ/h (791.8 BTU) Heat emission Electrical values (Base unit specific) 2 2 Power supply configuration 2 1 2 1 Standard power supply output 350 W 350 W 350 W 350 W

400 W

Hot-plug power supply output

400 W

400 W

400 W

Electrical values (Base unit specific Hot-plug power supply redundancy	No	Yes	No	Yes	No	Yes	No	Yes
Compliance								
Germany	GS							
Europe	CE							
USA/Canada	CSAc/us							
	ULc/us FCC Class A							
Global	CB							
	RoHS (Restri	ction of ha	zardous subst	ances)				
	•	e electrical	and electroni	cal equipment)				
Japan	VCCI							
Australia&New Zealand	C-Tick BSMI							
Taiwan Compliance notes		ral compli	ance with the	safety requirer	nents of all Fu	ronean countri	es and North	America. Nationa
Compliance notes	•			, ,		her reasons ca		
Compliance link	https://sp.fujit	su-siemen	s.com/sites/ce	ertificates/defa	ılt.aspx			•
_								
Components								
Hard disk drives			•	t plug, 3.5-inch	1			
	SATA, 3 Gb/s							
	SATA, 3 Gb/s		•					
	SATA, 3 Gb/s SATA, 3 Gb/s							
			•	plug, 3.5-inch				
				plug, 3.5-inch				
	SAS, 3 Gb/s	-						
				plug, 2.5-inch				
	SAS, 3 Gb/s			•				
	SAS, 3 Gb/s	•		•				
Hard disk notes						and RAID set		
				s, when referrir pending on us		drive capacity	-	
Tape Drives				ht, SCSI U2W				
	DDS Gen5, 3			alf height, SCS	LU2W			
				nt, SCSI U160	. 0211			
	DDS Gen6, 8	0 GB , 6 N	1B/s, half heig	ht, USB 2.0				
				alf height, SC				
				alf height, SC				
			•	s, half height,				
				nalf height, SC half height, SA				
				25 MB/s, half		.0		
Ontical drives								
Optical drives	•			DVD; 24x CD	,			
Optical drives	Blu-ray comb	•		SY DVD: 40Y C				
Optical drives	•	O Combo.		Sx DVD; 40x C CD/CD-R, 16xC	, -			
Optical dilves	•	-	(8xDVD; 24xC	D/CD-R, 16xC	, -			
Optical dilves	CD-RW / DVI DVD-ROM, (1 DVD Super M	I6xDVD; 4 Iulti, (16xD	(8xDVD; 24x0 8xCD), half he VVD, 8xDVD+F	D/CD-R, 16x0 eight, SATA I RW 6xDVD-RV	D-RW), slimlii V, 12xDVD-RA	ne, SATA I aM; 48xCD, 32	,,	f height, SATA I
Optical dilves	CD-RW / DVI DVD-ROM, (1 DVD Super M	I6xDVD; 4 Iulti, (16xD	(8xDVD; 24x0 8xCD), half he VVD, 8xDVD+F	D/CD-R, 16x0 eight, SATA I RW 6xDVD-RV	D-RW), slimlii V, 12xDVD-RA	ne, SATA I	,,	0 /
SCSI / SAS Controller	CD-RW / DVI DVD-ROM, (1 DVD Super M	I6xDVD; 4 Iulti, (16xD Iulti, (8xD\	(8xDVD; 24xC 8xCD), half he VVD, 8xDVD+F /D/DVD+RW,	D/CD-R, 16xC eight, SATA I RW 6xDVD-RV 6xDVD-RW, 5:	D-RW), slimlii V, 12xDVD-RA	ne, SATA I aM; 48xCD, 32	,,	0 /
SCSI / SAS Controller	CD-RW / DVI DVD-ROM, (1 DVD Super M DVD Super M SCSI Ctrl 320	16xDVD; 4 lulti, (16xD lulti, (8xD\ ) MB/sec 1	(8xDVD; 24xC 8xCD), half he VD, 8xDVD+F /D/DVD+RW, ch int/ext PCI	ED/CD-R, 16xCeight, SATA I RW 6xDVD-RV 6xDVD-RW, 5: e x1	D-RW), slimlii V, 12xDVD-RA xDVD-RAM; 2	ne, SATA I M; 48xCD, 32 4xCD/CD-R, 1	,,	0 /
	CD-RW / DVI DVD-ROM, (1 DVD Super M DVD Super M SCSI Ctrl 320 RAID 5/6 Ctrl	I6xDVD; 4 Iulti, (16xD Iulti, (8xD\ ) MB/sec 1	(8xDVD; 24xC 8xCD), half he bVD, 8xDVD+F /D/DVD+RW, ch int/ext PCI A 3 Gbit/sec, I	D/CD-R, 16xCeight, SATA I RW 6xDVD-RV 6xDVD-RW, 5 e x1 LSI MegaRAID	D-RW), slimlii V, 12xDVD-RA (DVD-RAM; 2 SAS8880E, 8	M; 48xCD, 32: 4xCD/CD-R, 10: 3 ports ext.	6xCD-RW), sli	0 /
SCSI / SAS Controller	CD-RW / DVI DVD-ROM, (1 DVD Super M DVD Super M SCSI Ctrl 320 RAID 5/6 Ctrl RAID level	6xDVD; 4   lulti, (16xD   lulti, (8xD\)   MB/sec 1   SAS/SAT  : 0, 1, 10,	(8xDVD; 24xC 8xCD), half he VD, 8xDVD+F /D/DVD+RW, ch int/ext PCI A 3 Gbit/sec, 1 5, 50, 6, 60, 5	CD/CD-R, 16xCeight, SATA I RW 6xDVD-RV 6xDVD-RW, 5 e x1 LSI MegaRAID 12 MB Cache,	D-RW), slimlii V, 12xDVD-RA (DVD-RAM; 2 SAS8880E, 8 no BBU supp	M; 48xCD, 32: 4xCD/CD-R, 1: 8 ports ext. ort (based on I	6xCD-RW), sli	0 /
SCSI / SAS Controller	CD-RW / DVD DVD-ROM, (1 DVD Super M DVD Super M SCSI Ctrl 320 RAID 5/6 Ctrl RAID level RAID 1/6 Ctrl RAID 1/6 Ctrl RAID 1/6 Ctrl RAID 1/6 Ctrl	6xDVD; 4 lulti, (16xE lulti, (8xDV ) MB/sec 1 , SAS/SAT I: 0, 1, 10, , SAS/SAT I: 0, 1, 10,	(8xDVD; 24xC 8xCD), half he VD, 8xDVD+F /D/DVD+RW, ch int/ext PCI A 3 Gbit/sec, 1 5, 50, 6, 60, 5 A 3 Gbit/sec, 1 5, 50, 6, 60, 5	ED/CD-R, 16xCeight, SATA I RW 6xDVD-RV 6xDVD-RW, 5 e x1 LSI MegaRAID 12 MB Cache, LSI MegaRAID 12 MB Cache,	SD-RW), slimling, 12xDVD-RAM; 2 SAS8880E, 8 no BBU supp SAS8880E, 8 inclusive BBU	M; 48xCD, 32: 4xCD/CD-R, 10: 8 ports ext. ort (based on I: 8 ports ext. J (based on LS	6xCD-RW), sli	0 /
SCSI / SAS Controller	CD-RW / DVD DVD-ROM, (1 DVD Super M DVD Super M SCSI Ctrl 320 RAID 5/6 Ctrl RAID level RAID 1/6 Ctrl	6xDVD; 4 lulti, (16xE lulti, (8xDV ) MB/sec 1 , SAS/SAT I: 0, 1, 10, , SAS/SAT I: 0, 1, 10, V RAID 5,	(8xDVD; 24xC 8xCD), half he bVD, 8xDVD+F /D/DVD+RW, ch int/ext PCI A 3 Gbit/sec, 1 5, 50, 6, 60, 5 A 3 Gbit/sec, 1 5, 50, 6, 60, 5 SATA II 3 Gbit	ED/CD-R, 16xCeight, SATA I RW 6xDVD-RV 6xDVD-RW, 5: e x1 LSI MegaRAID 12 MB Cache, LSI MegaRAID 12 MB Cache, /sec, LSI Emble	SD-RW), slimling, 12xDVD-RAM; 2 SAS8880E, 8 no BBU supp SAS8880E, 8 inclusive BBU	M; 48xCD, 32: 4xCD/CD-R, 10: 8 ports ext. ort (based on I: 8 ports ext. J (based on LS	6xCD-RW), sli	0 /
SCSI / SAS Controller	CD-RW / DVD DVD-ROM, (1 DVD Super M DVD Super M SCSI Ctrl 320 RAID 5/6 Ctrl RAID level RAID 16/6 Ctrl RAID 16/6 Ctrl RAID 16/6 Ctrl RAID 16/6 RAID	MB/sec 1 , SAS/SAT 1: 0, 1, 10, , SAS/SAT 1: 0, 1, 10, , SAS/SAT 1: 0, 1, 10, V RAID 5, 1: 0, 1, 10,	(8xDVD; 24xC 8xCD), half he bVD, 8xDVD+F /D/DVD+RW, ch int/ext PCI A 3 Gbit/sec, 1 5, 50, 6, 60, 5 A 3 Gbit/sec, 1 5, 50, 6, 60, 5 SATA II 3 Gbit , no BBU supp	ED/CD-R, 16xCeight, SATA I RW 6xDVD-RV 6xDVD-RW, 5 e x1 LSI MegaRAID 12 MB Cache, LSI MegaRAID 12 MB Cache, /sec, LSI Emboort	SD-RW), slimling, 12xDVD-RAM; 2 SAS8880E, 8 no BBU supp SAS8880E, 8 inclusive BBU edded MegaS	M; 48xCD, 32: 4xCD/CD-R, 10: 8 ports ext. ort (based on I: 8 ports ext. J (based on LS	6xCD-RW), sli	0 /
SCSI / SAS Controller	CD-RW / DVD DVD-ROM, (1 DVD Super M DVD Super M SCSI Ctrl 320 RAID 5/6 Ctrl RAID level RAID level Integrated SV RAID level Integrated RAID level	MB/sec 1 SAS/SAT B: 0, 1, 10, SAS/SAT B: 0, 1, 10, SAS/SAT C: 0, 1, 10, V RAID 5, C: 0, 1, 10, SAS/SAT C: 0, 1, 10, V RAID 5, C: 0, 1, 10, SAS/SAT	(8xDVD; 24xC 8xCD), half he bVD, 8xDVD+F /D/DVD+RW, ch int/ext PCI A 3 Gbit/sec, I 5, 50, 6, 60, 5 A 3 Gbit/sec, I 5, 50, 6, 60, 5 SATA II 3 Gbit , no BBU supp I, SAS/SATA 3	ED/CD-R, 16xC eight, SATA I RW 6xDVD-RV 6xDVD-RW, 5 e x1 LSI MegaRAID 12 MB Cache, LSI MegaRAID 12 MB Cache, /sec, LSI Embroort	SAS8880E, & no BBU supp SAS8880E, & inclusive BBL edded MegaSt, & ports int.	AM; 48xCD, 32: 4xCD/CD-R, 10: 3 ports ext. ort (based on I 3 ports ext. J (based on LS) R RAID5,	6xCD-RW), sli .Sl 1078) I 1078)	0 /
SCSI / SAS Controller	CD-RW / DVD DVD-ROM, (1 DVD Super M DVD Super M SCSI Ctrl 320 RAID 5/6 Ctrl RAID leve RAID 15/6 Ctrl RAID leve Integrated SV RAID leve Integrated RA RAID leve	MB/sec 1  SAS/SAT  SAS/SAT  SAS/SAT  SAS/SAT  SAS/SAT  ON 1, 10, SAS/S	(8xDVD; 24xC 8xCD), half he bVD, 8xDVD+F /D/DVD+RW, ch int/ext PCI A 3 Gbit/sec, 5, 50, 6, 60, 5 A 3 Gbit/sec, 5, 50, 6, 60, 5 SATA II 3 Gbit , no BBU sup I, SAS/SATA 3 5, 50, 6, 60, 5	ED/CD-R, 16xC eight, SATA I RW 6xDVD-RV 6xDVD-RW, 5 e x1 LSI MegaRAID 12 MB Cache, LSI MegaRAID 12 MB Cache, /sec, LSI Embroort	SAS8880E, & no BBU supp SAS8880E, & inclusive BBL edded MegaS c, 8 ports int. optional BBU	M; 48xCD, 32: 4xCD/CD-R, 10: 8 ports ext. ort (based on I: 8 ports ext. J (based on LS	6xCD-RW), sli .Sl 1078) I 1078)	0 /
SCSI / SAS Controller	CD-RW / DVD DVD-ROM, (1 DVD Super M DVD Super M SCSI Ctrl 320 RAID 5/6 Ctrl RAID leve RAID leve Integrated SV RAID leve Integrated RA RAID leve Integrated RA	16xDVD; 4 Iulti, (16xD Iulti, (8xDV) MB/sec 1 , SAS/SAT I: 0, 1, 10, , SAS/SAT I: 0, 1, 10, V RAID 5, I: 0, 1, 10, NID 5/6 Ctr I: 0, 1, 10,	(8xDVD; 24xC 8xCD), half he bVD, 8xDVD+F /D/DVD+RW, ch int/ext PCI A 3 Gbit/sec, 5, 50, 6, 60, 5 A 3 Gbit/sec, 5, 50, 6, 60, 5 SATA II 3 Gbit , no BBU sup I, SAS/SATA 3 5, 50, 6, 60, 5 I, SAS/SATA 3	ED/CD-R, 16xC eight, SATA I RW 6xDVD-RV 6xDVD-RW, 5: e x1 LSI MegaRAID 12 MB Cache, LSI MegaRAID 12 MB Cache, /sec, LSI Embroort 12 MB Cache, 12 MB Cache, 13 MB Cache, 14 Gbit/sec, FSC	SAS8880E, & no BBU supp SAS8880E, & inclusive BBU edded MegaS & , 8 ports int. optional BBU & , 8 ports int.	AM; 48xCD, 32: 4xCD/CD-R, 10: 3 ports ext. ort (based on I 3 ports ext. J (based on LS) R RAID5,	6xCD-RW), sli  LSI 1078) I 1078)	0 /
SCSI / SAS Controller	CD-RW / DVD DVD-ROM, (1 DVD Super M DVD Super M SCSI Ctrl 320 RAID 5/6 Ctrl RAID leve RAID leve Integrated SV RAID leve Integrated RA	MB/sec 1  SAS/SAT  SAS/SAT  SAS/SAT  SAS/SAT  SAS/SAT  SAS/SAT  ON THE SAS/SAT	(8xDVD; 24xC 8xCD), half he bVD, 8xDVD+F /D/DVD+RW, ch int/ext PCI A 3 Gbit/sec, 5, 50, 6, 60, 5 A 3 Gbit/sec, 5, 50, 6, 60, 5 SATA II 3 Gbit , no BBU sup I, SAS/SATA 3 5, 50, 6, 60, 5 I, SAS/SATA 3 5, 50, 6, 60, 2 I, SAS/SATA 3	ED/CD-R, 16xC eight, SATA I RW 6xDVD-RV, 5: e x1 LSI MegaRAID 12 MB Cache, LSI MegaRAID 12 MB Cache, /sec, LSI Embrort Gbit/sec, FSC 12 MB Cache, Gbit/sec, FSC 56 MB Cache, Gbit/sec, FSC	SAS8880E, 8 no BBU supp SAS8880E, 8 inclusive BBU edded MegaSe, 8 ports int. optional BBU 5, 8 ports int.	AM; 48xCD, 32: 4xCD/CD-R, 10: 8 ports ext. ort (based on IB) ports ext. U (based on LS) R RAID5,	6xCD-RW), sli  LSI 1078) I 1078)	0 /
SCSI / SAS Controller	CD-RW / DVD DVD-ROM, (1 DVD Super M DVD Super M SCSI Ctrl 320 RAID 5/6 Ctrl RAID leve RAID leve Integrated SV RAID leve Integrated RA RAID leve	16xDVD; 4 Iulti, (16xD Iulti, (16xD Iulti, (8xD) 10 MB/sec 1 10 NB/sec 1 10 NB	(8xDVD; 24xC 8xCD), half he bVD, 8xDVD+F /D/DVD+RW, ch int/ext PCI A 3 Gbit/sec, 5, 50, 6, 60, 5 A 3 Gbit/sec, 5, 50, 6, 60, 5 SATA II 3 Gbit , no BBU sup I, SAS/SATA 3 5, 50, 6, 60, 2 I, SAS/SATA 3 5, 50, 6, 60, 2 I, SAS/SATA 3 , no BBU sup	ED/CD-R, 16xC eight, SATA I RW 6xDVD-RV, 5: e x1 LSI MegaRAID 12 MB Cache, Sec, LSI Embrort Gbit/sec, FSC 12 MB Cache, Gbit/sec, FSC 56 MB Cache, Gbit/sec, FSC port (based on	SAS8880E, 8 no BBU supp SAS8880E, 8 inclusive BBU edded Megas 2, 8 ports int. optional BBU 2, 8 ports int. optional BBU 2, 8 ports int. LSI 1068e)	AM; 48xCD, 32: 4xCD/CD-R, 10: 8 ports ext. ort (based on IB) ports ext. U (based on LS) R RAID5,	6xCD-RW), sli  LSI 1078) I 1078)	0 /
SCSI / SAS Controller	CD-RW / DVD DVD-ROM, (1 DVD Super M DVD Super M SCSI Ctrl 320 RAID 5/6 Ctrl RAID leve Integrated SV RAID leve Integrated RA	16xDVD; 4 1ulti, (16xD 1ulti, (16xD 1ulti, (8xD 1) 10 MB/sec 1 10 , SAS/SAT 10: 0, 1, 10, 10, SAS/SAT 10: 0, 1, 10, 10: 0, 1, 10, 110 5/6 Ctr 110 0, 1, 10, 110 0/1 Ctr	(8xDVD; 24xC 8xCD), half he bVD, 8xDVD+F /D/DVD+RW, ch int/ext PCI A 3 Gbit/sec, 5, 50, 6, 60, 5 A 3 Gbit/sec, 5, 50, 6, 60, 5 SATA II 3 Gbit , no BBU sup I, SAS/SATA 3 5, 50, 6, 60, 2 I, SAS/SATA 3 , no BBU sup I, SAS/SATA 3	ED/CD-R, 16xC eight, SATA I RW 6xDVD-RW, 5: 6xDVD-RW, 5: e x1 LSI MegaRAID 12 MB Cache, JSEC, LSI Embroort GBit/sec, FSC 12 MB Cache, GBit/sec, FSC 56 MB Cache, GBit/sec, FSC port (based on	SAS8880E, 8 no BBU supp SAS8880E, 8 inclusive BBU edded Megas 6, 8 ports int. optional BBU 6, 8 ports int. optional BBU 6, 8 ports int. LSI 1068e) 6, 4 port int.	AM; 48xCD, 32; 4xCD/CD-R, 10 B ports ext. ort (based on LB ports ext. J (based on LS) KR RAID5, (based on LSI (based on LSI	6xCD-RW), sli  LSI 1078)  I 1078)  1078)	0 /
SCSI / SAS Controller RAID Controller	CD-RW / DVD DVD-ROM, (1 DVD Super M DVD Super M SCSI Ctrl 320 RAID 5/6 Ctrl RAID leve RAID 160	MB/sec 1  , SAS/SAT  ; 0, 1, 10,  , SAS/SAT  ; 0, 1, 10,  , SAS/SAT  ; 0, 1, 10,  V RAID 5,  ; 0, 1, 10,  VID 5/6 Ctr  ; 0, 1, 10,  VID 0/1 Ctr  ; 0, 1, 1E,  VID 0/1 Ctr  ; 0, 1, 1E,  VID 0/1 Ctr  ; 0, 1, 1E,	(8xDVD; 24xC 8xCD), half he bVD, 8xDVD+F /D/DVD+RW, ch int/ext PCI- 75, 50, 6, 60, 5 75, 50, 6, 60, 2 75, 50, 6, 60, 2	cD/CD-R, 16xC eight, SATA I RW 6xDVD-RW, 5: e x1 LSI MegaRAID 12 MB Cache, LSI MegaRAID 12 MB Cache, /sec, LSI Emboort 12 MB Cache, Gbit/sec, FSC 56 MB Cache, Goit/ Sec, FSC port, for intern	SD-RW), slimility, 12xDVD-RAM; 2 SAS8880E, 8 no BBU supp SAS8880E, 8 inclusive BBU edded MegaS c, 8 ports int. optional BBU c, 8 ports int. optional BBU c, 8 ports int. LSI 1068e) c, 4 port int. al SAS tapes	M; 48xCD, 32; 4xCD/CD-R, 10 B ports ext. ort (based on LB) ports ext. J (based on LSI (based on LSI (based on LSI	6xCD-RW), sli  LSI 1078)  I 1078)  1078)  1078)	0 /
SCSI / SAS Controller	CD-RW / DVD DVD-ROM, (1 DVD Super M DVD Super M SCSI Ctrl 320 RAID 5/6 Ctrl RAID leve RAID 160	MB/sec 1  , SAS/SAT  ; 0, 1, 10,  , SAS/SAT  ; 0, 1, 10,  , SAS/SAT  ; 0, 1, 10,  V RAID 5,  ; 0, 1, 10,  VID 5/6 Ctr  ; 0, 1, 10,  VID 0/1 Ctr  ; 0, 1, 1E,  VID 0/1 Ctr  ; 0, 1, 1E,  VID 0/1 Ctr  ; 0, 1, 1E,	(8xDVD; 24xC 8xCD), half he bVD, 8xDVD+F /D/DVD+RW, ch int/ext PCI- 75, 50, 6, 60, 5 75, 50, 6, 60, 2 75, 50, 6, 60, 2	cD/CD-R, 16xC eight, SATA I RW 6xDVD-RW, 5: e x1 LSI MegaRAID 12 MB Cache, LSI MegaRAID 12 MB Cache, /sec, LSI Emboort 12 MB Cache, Gbit/sec, FSC 56 MB Cache, Goit/ Sec, FSC port, for intern	SD-RW), slimility, 12xDVD-RAM; 2 SAS8880E, 8 no BBU supp SAS8880E, 8 inclusive BBU edded MegaS c, 8 ports int. optional BBU c, 8 ports int. optional BBU c, 8 ports int. LSI 1068e) c, 4 port int. al SAS tapes	AM; 48xCD, 32; 4xCD/CD-R, 10 B ports ext. ort (based on LB ports ext. J (based on LS) KR RAID5, (based on LSI (based on LSI	6xCD-RW), sli  LSI 1078)  I 1078)  1078)  1078)	0 /
SCSI / SAS Controller RAID Controller	CD-RW / DVD DVD-ROM, (1 DVD Super M DVD Super M SCSI Ctrl 320 RAID 5/6 Ctrl RAID leve RAID 16/6 Ctrl RAID leve Integrated SV RAID leve Integrated RA RAID leve	MB/sec 1  SAS/SAT  SAS/SAT  SAS/SAT  SON 1, 10,  SAS/SAT  SON 1, 10,  VRAID 5,  SON 1, 10,  VRAID 5/6 Ctr  SON 1, 10,  VID 5/6 Ctr  ON 1, 10,  VID 0/1 Ctr  ON 1, 1E,  VID 0/1 Ctr	(8xDVD; 24xC 8xCD), half he bVD, 8xDVD+F /D/DVD+RW, ch int/ext PCI- 75, 50, 6, 60, 5 75, 50, 6, 60, 2 75, 50, 60, 60, 60, 60, 60, 60, 60, 60, 60, 6	cD/CD-R, 16xC eight, SATA I RW 6xDVD-RW, 5: e x1 LSI MegaRAID 12 MB Cache, LSI MegaRAID 12 MB Cache, /sec, LSI Emboort 12 MB Cache, Gbit/sec, FSC 56 MB Cache, Goit/ Sec, FSC port, for intern	SD-RW), slimility, 12xDVD-RAM; 2 SAS8880E, 8 no BBU supp SAS8880E, 8 inclusive BBU edded MegaS c, 8 ports int. optional BBU c, 8 ports int. optional BBU c, 8 ports int. LSI 1068e) c, 4 port int. al SAS tapes	M; 48xCD, 32; 4xCD/CD-R, 10 B ports ext. ort (based on LB) ports ext. J (based on LSI (based on LSI (based on LSI	6xCD-RW), sli  LSI 1078)  I 1078)  1078)  1078)	0 /
SCSI / SAS Controller  RAID Controller  Fibre Channel controller	CD-RW / DVD DVD-ROM, (1 DVD Super M DVD Super M SCSI Ctrl 320 RAID 5/6 Ctrl RAID leve Integrated SV RAID leve Integrated RA RAID leve	I 6xDVD; 4 Iulti, (16xD Iulti, (16xD Iulti, (8xD) I MB/sec 1  , SAS/SAT I: 0, 1, 10, I SAS/SAT I: 0, 1, 10, I RAID 5, I: 0, 1, 10, II D 5/6 Ctr I: 0, 1, 10, IID 5/6 Ctr I: 0, 1, 10, IID 0/1 Ctr I: 0, 1, 1E, IID 0/1 Ctr I: 0, 1, 1E, II Ctrl x 4 (1) I x 1 Gbit/ 1 x 1 Gbit/ 1 x 1 Gbit/	(8xDVD; 24xC 8xCD), half he bVD, 8xDVD+F /D/DVD+RW, ch int/ext PCI- A 3 Gbit/sec, 5, 50, 6, 60, 5 SATA II 3 Gbit , no BBU sup I, SAS/SATA 3 5, 50, 6, 60, 2 I, SAS/SATA 3 , no BBU sup I, SAS/SATA 3 , no BBU sup Gbit/sec Emul-	ED/CD-R, 16xC eight, SATA I RW 6xDVD-RV 6xDVD-RW, 5: e x1 LSI MegaRAID 12 MB Cache, /Sec, LSI Embroort 12 MB Cache, /Sec, LSI Embroort 12 MB Cache, 6 Gbit/sec, FSC 12 MB Cache, 6 Gbit/sec, FSC port (based on 6 Gbit/sec, FSC port, for internation of the control of the control ex FC Ctrl 4GE abit CT Deskto D/1000 GT Des	SD-RW), slimility, 12xDVD-RAM; 2:  SAS8880E, 8: no BBU supp SAS8880E, 8: inclusive BBU edded MegaS  2, 8 ports int. optional BBU 2, 8 ports int. optional BBU 3, 8 ports int. LSI 1068e) 4, 4 port int. al SAS tapes Sit/s LPe111 M p Adapter ektop Adapter	M; 48xCD, 32; 4xCD/CD-R, 10 B ports ext. ort (based on LB) ports ext. J (based on LSI (based on LSI (based on LSI	6xCD-RW), sli  LSI 1078)  I 1078)  1078)  1078)	0 /
SCSI / SAS Controller  RAID Controller  Fibre Channel controller	CD-RW / DVD DVD-ROM, (1 DVD Super M DVD Super M DVD Super M SCSI Ctrl 320 RAID 5/6 Ctrl RAID leve Integrated SV RAID leve Integrated RA RAID leve	I 6xDVD; 4 Iulti, (16xD Iulti, (16xD Iulti, (8xD) I MB/sec 1  , SAS/SAT I: 0, 1, 10, I SAS/SAT I: 0, 1, 10, I RAID 5, I: 0, 1, 10, II D 5/6 Ctr I: 0, 1, 10, IID 5/6 Ctr I: 0, 1, 10, IID 0/1 Ctr I: 0, 1, 1E, IID 0/1 Ctr I: 0, 1, 1E, II Ctrl x 4 (1) I x 1 Gbit/ 1 x 1 Gbit/ 1 x 1 Gbit/ 1 x 1 Gbit/	(8xDVD; 24xC 8xCD), half he bVD, 8xDVD+F /D/DVD+RW, ch int/ext PCI- A 3 Gbit/sec, 5, 50, 6, 60, 5 A 3 Gbit/sec, 5, 50, 6, 60, 5 SATA II 3 Gbit , no BBU sup I, SAS/SATA 3 5, 50, 6, 60, 2 I, SAS/SATA 3 , no BBU sup I, SAS/SATA 3 , no BBU sup Gbit/sec Emul- sec Intel® Giga sec Intel® PRC sec Intel® PRC	cD/CD-R, 16xC eight, SATA I RW 6xDVD-RW, 5: e x1 LSI MegaRAID 12 MB Cache, Sec, LSI Embroort Gbit/sec, FSC 12 MB Cache, Gbit/sec, FSC 56 MB Cache, Gbit/sec, FSC port (based on Gbit/sec, FSC port, for internex ex FC Ctrl 4GE abit CT Deskto D/1000 GT Des D/1000 PF Ser	SD-RW), slimility, 12xDVD-RAM; 2:  SAS8880E, 8: no BBU supp SAS8880E, 8: inclusive BBU edded MegaSe  2, 8 ports int. optional BBU 2, 8 ports int. optional BBU 3, 8 ports int. LSI 1068e) 4, 4 port int. al SAS tapes Sit/s LPe111 M p Adapter sktop Adapter ver Adapter	M; 48xCD, 32; 4xCD/CD-R, 10 B ports ext. ort (based on LB) ports ext. J (based on LSI (based on LSI (based on LSI	6xCD-RW), sli  LSI 1078)  I 1078)  1078)  1078)	0 /
SCSI / SAS Controller  RAID Controller  Fibre Channel controller	CD-RW / DVD DVD-ROM, (1 DVD Super M DVD Super M DVD Super M SCSI Ctrl 320  RAID 5/6 Ctrl RAID leve Integrated SV RAID leve Integrated RA RAID leve Int	I 6xDVD; 4 Iulti, (16xD Iulti, (16xD Iulti, (8xD) Iulti, (8xD) Iulti, (8xD) I MB/sec 1  , SAS/SAT I: 0, 1, 10, I SAS/SAT I: 0, 1, 10, I RAID 5, I: 0, 1, 10, IID 5/6 Ctr I: 0, 1, 10, IID 5/6 Ctr I: 0, 1, 10, IID 0/1 Ctr I: 0, 1, 1E, IID 0/1 Ctr I: 0, 1, 1E, II Ctrl x 4 (1) I x 1 Gbit/ 1 x 1 Gbit/	(8xDVD; 24xC 8xCD), half he bVD, 8xDVD+F /D/DVD+RW, ch int/ext PCI- A 3 Gbit/sec, 5, 50, 6, 60, 5 A 3 Gbit/sec, 5, 50, 6, 60, 5 SATA II 3 Gbit , no BBU sup I, SAS/SATA 3 5, 50, 6, 60, 2 I, SAS/SATA 3 , no BBU sup I, SAS/SATA 3 , no BBU sup Gbit/sec Emul- sec Intel® Giga sec Intel® PRC sec Intel® PRC sec Intel® PRC	ED/CD-R, 16xC eight, SATA I RW 6xDVD-RV 6xDVD-RW, 5: e x1 LSI MegaRAID 12 MB Cache, /Sec, LSI Embroort 12 MB Cache, /Sec, LSI Embroort 12 MB Cache, 6 Gbit/sec, FSC 12 MB Cache, 6 Gbit/sec, FSC port (based on 6 Gbit/sec, FSC port, for internation of the control of the control ex FC Ctrl 4GE abit CT Deskto D/1000 GT Des	SD-RW), slimility, 12xDVD-RAM; 2 SAS8880E, 8 no BBU supp SAS8880E, 8 inclusive BBU edded MegaS c, 8 ports int. optional BBU c, 8 ports int. optional BBU c, 8 ports int. LSI 1068e) c, 4 port int. al SAS tapes sit/s LPe111 M p Adapter sktop Adapter ver Adapter	M; 48xCD, 32; 4xCD/CD-R, 10  B ports ext. ort (based on LB) ports ext. J (based on LS) (based on LSI (based on LSI (based on LSI MF LC MMF L	6xCD-RW), sli  LSI 1078)  I 1078)  1078)  1078)	0 /

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